

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

C Number:	C61234E
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Female

ANIMAL ID: 1_358	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
Spleen		Hemosiderosis	
Unspecified		Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 10/26/2014
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_359	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Eye	Retina	Cataract Degeneration, Nos	
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma Galactoceles	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Inflammation, Acute/Chronic Ulcer, Acute	
Thyroid		C-Cell Adenoma C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_360	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Tubular-Cell Adenocarcinoma	
Liver		Inflammation, Acute	
		Metamorphosis, Fatty	
		Necrosis, Coagulative	
		Squamous Cell Carcinoma, Invasive	
Lung		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Stomach		Squamous Cell Carcinoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_361	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_362	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Lung		Inflammation, Acute/Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Stomach		Hyperkeratosis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_363	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye	Retina	Cataract	
Kidney		Degeneration, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Hypertrophy, Focal	
Skin	Eyelid Nos	Squamous Cell Carcinoma	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	C-Cell Carcinoma, Metastatic	
	Flank	Fibroma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_364	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS Unspecified	Neck Diaphragm Nos	Fibrous Histiocytoma, Malignant Hernia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 10/26/2014
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_365	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Interstitial	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Pancreas	Islets	Islet-Cell Carcinoma	
Spleen		Hemangiosarcoma	
Thyroid		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_366	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland Kidney	Cortex Nos	Metamorphosis, Fatty Mineralization Pigmentation, Nos	
Liver Unspecified	Multiple Organs Nos	Hepatitis, Toxic Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

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Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 10/26/2014
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_367	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactocoele	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH			
-			

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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_368	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
	Mediastinal Lymph Node	Inflammation, Chronic	
Liver		Pigmentation, Nos	
Lymph node		Focal Cellular Change	
		Hyperplasia, Plasma Cell	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Stomach		Acanthosis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_369	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Lung		Inflammation, Acute Focal	
Mammary gland		Adenocarcinoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_370	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
	Mandibular Lymph Node	Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Lymph node		Hyperplasia, Plasma Cell	
Mammary gland		Adenoma, Nos	
		Dilatation, Ducts	
	Multiple Organs Nos	Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Adenoma	
Unspecified		Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_371	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
		Galactoceles	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_372	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Galactocoele	
Pituitary gland		Adenoma, Nos	
Skin	Ear	Keratoacanthoma	
Spleen		Hemosiderosis	
Stomach		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_373	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_374	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
Pancreas		Acinar-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_375	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_376	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Astrocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
		Hypertrophy, Focal	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Adenoma	
Uterus	Broad Ligament	Fibrosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_377	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Stomach		Acanthosis	
		Inflammation, Chronic	
		Ulcer, Acute	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_378	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
Pituitary gland		Adenoma, Nos	
Unspecified		Osteosarcoma	
		Osteosarcoma, Metastatic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_379	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_380	TRT#: 1	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Inflammation, Chronic	
		Mineralization	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Dilatation, Ducts	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_381	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart		Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_382	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Brain	Cerebrum	Astrocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Inflammation, Acute/Chronic	
Lung		Congestion, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Skin	Nose	Squamous Cell Papilloma	
Spleen		Hemosiderosis	
Uterus		Endometrial Stromal Polyp	
Zymbal gland		Dilatation, Ducts	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_383	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Spleen		Hematopoiesis	
Thyroid		C-Cell Carcinoma	
Unspecified	Thoracolumbar Region	Osteosarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_384	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Metamorphosis, Fatty	
Mammary gland		Galactoceles	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_385	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node Mesenteric Lymph Node	Hyperplasia, Plasma Cell Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hematopoiesis	
Unspecified	Diaphragm Nos Nose	Hernia, Nos Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_386	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Chronic	
		Ulcer, Perforated	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
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Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_387	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
		Angiectasis	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_388	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Femur	Osteosarcoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Congestion, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_389	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Cystic Ducts	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_390	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Abdominal Cavity	Leiomyosarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_391	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Angiectasis	
		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pancreas		Acinar-Cell Adenoma	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Unspecified		Fibroma	
Uterus		Endometrial Stromal Polyp	
		Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_392	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Lung		Congestion, Nos Hemorrhage	
Mammary gland		Adenocarcinoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_393	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Lipoma	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hematopoiesis	
		Inflammation, Granulomatous	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_394	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
		Hemorrhage	
Heart	Myocardium Nos	Fibrosis	
Intestine Small	Duodenum	Leiomyoma	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hepatitis, Toxic	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified		Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_395	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Neoplastic Nodule	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_396	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Interstitial	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Hyperkeratosis	
		Inflammation, Chronic	
Thyroid		Cystic Follicles	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_397	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Focal Cellular Change Metamorphosis, Fatty Inflammation, Chronic	
Lung		Fibroadenoma	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_398	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Carcinoma, Nos, Invasive	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas		Atrophy, Nos	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Tongue		Squamous Cell Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_399	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_400	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Ovary		Granulosa-Cell Tumor	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Flank	Fibrosarcoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

ANIMAL ID: 1_401	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Squamous Cell Carcinoma	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Ileocolic Lymph Node	Lymphangiectasis	
	Mesenteric Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_402	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_403	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Hypertrophy, Focal	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_404	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Spleen		Fibrosis	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_405	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_406	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Necrosis, Coagulative	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_407	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_408	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_409	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis Pheochromocytoma	
Eye	Retina	Cataract Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis Cast, Nos	
Kidney		Mineralization Pigmentation, Nos	
Liver		Cyst, Nos Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma Follicular-Cell Adenoma	
Uterus		Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_410	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Diaphragm Nos	Hernia, Nos	
Uterus		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_411	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lung		Inflammation, Interstitial	
Mammary gland		Adenocarcinoma, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_412	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Skull	Pheochromocytoma	
Bone		Hyperostosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
	Submucosa	Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Stomach		Acanthosis	
		Edema, Nos	
		Inflammation, Acute/Chronic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_413	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Congestion, Nos	
Lymph node	Mandibular Lymph Node	Congestion, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Uterus		Leiomyoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_414	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Spleen		Hemosiderosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_415	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Carcinoma, Nos	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Chronic	
Thyroid		Hyperplasia, C Cell	
Uterus		Leiomyoma	
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_416	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Inflammation, Chronic Pigmentation, Nos	
Liver		Focal Cellular Change	
Pituitary gland		Hyperplasia, Focal	
Thyroid		C-Cell Adenoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_417	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Ovary		Cyst, Parovarian	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_418	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Fibrous Histiocytoma, Metastatic Hyperplasia, Alveolar Epithelium	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma Follicular-Cell Adenoma	
Unspecified	Flank Multiple Organs Nos	Fibrous Histiocytoma, Malignant Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_419	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_420	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Angiectasis	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Skin	Ear	Squamous Cell Papilloma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_421	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_422	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma, Malignant	
Kidney		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Pheochromocytoma, Metastatic	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_423	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal Pheochromocytoma	
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Pancreas	Islets	Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_424	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_425	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_426	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Brain		Carcinoma, Nos, Invasive	
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Inflammation, Granulomatous	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Dilatation, Ducts Galactoceles	
Ovary		Cyst, Parovarian	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_427	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma, Malignant	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Pheochromocytoma, Metastatic	
		Sarcoma, Nos, Metastatic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Head	Sarcoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_428	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_429	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Clitoral gland		Dilatation, Ducts	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hemorrhage	
		Neoplastic Nodule	
Lung		Alveolar/Bronchiolar Carcinoma	
Mammary gland		Fibroadenoma	
Stomach		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Uterus	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_430	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
		Focal Cellular Change	
		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
Pancreas		Atrophy, Nos	
	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_431	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Flank	Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_432	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pancreas	Peripancreatic Tissue	Hemangiosarcoma	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_434	TRT#: 1 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Cyst, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Abdominal Cavity	Necrosis, Fat	
	Abdominal Cavity	Steatitis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_435	TRT#: 1	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		Cystic Follicles	
		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_436	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
		Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis, Focal	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_437	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Skeletal muscle		Inflammation, Chronic Focal	
Skin	Nose	Squamous Cell Papilloma	
Spleen		Fibrosis	
Stomach		Cyst, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Cervix Uteri	Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

ANIMAL ID: 1_438	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Mammary gland		Dilatation, Ducts	
Ovary		Thecoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_439	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Infarct, Acute	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_440	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_441	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Hepatitis, Toxic	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Stomach	Submucosa	Edema, Nos Ulcer, Acute	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_442	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Carcinoma, Nos, Invasive	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Pigmentation, Nos	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Hyperplasia, Lymphoid	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_443	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_444	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_445	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Cortex Nos	Hypertrophy, Focal Metamorphosis, Fatty Carcinoma, Nos, Invasive Cast, Nos Inflammation, Chronic Mineralization	
Brain			
Kidney			
Liver		Focal Cellular Change	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_571	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Focal	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Pituitary gland		Hypertrophy, Focal	
		Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_572	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Transverse Colon, Colon	Adenomatous Polyp, Nos	
	Cecum, Colon	Inflammation, Acute	
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
	Colon	Parasitism	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_573	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_574	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Kidney		Cast, Nos	
		Mixed Tumor, Malignant	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_575	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Clitoral gland		Carcinoma, Nos	
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Focal	
Lymph node	Iliac Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Angiectasis	
		Hyperplasia, Focal	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_576	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
	Transverse Colon, Colon	Parasitism	
Kidney		Mineralization	
		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_577	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_578	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Cecum, Colon	Adenocarcinoma, Nos	
Kidney		Mineralization	
Liver		Hepatocellular Carcinoma	
		Metamorphosis, Fatty	
Stomach		Hyperkeratosis	
Unspecified	Multiple Organs Nos	Adenocarcinoma, Nos, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_579	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Congestion, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Stomach		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_580	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Descending, Colon	Adenocarcinoma In Adenomatous Polyp Cast, Nos Mineralization	
Liver Lymph node Mammary gland	Mediastinal Lymph Node	Focal Cellular Change Pigmentation, Nos Galactoceles	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_581	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Intestine Small	Duodenum	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
Unspecified		Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_582	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
	Adipose Tissue	Necrosis, Fat	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_583	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Necrosis, Coagulative	
Lung		Congestion, Nos	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
Uterus		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_584	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Inflammation, Acute/Chronic	
Kidney		Mineralization	
Liver		Cyst, Nos	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Parovarian	Steatitis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_585	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_586	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Metamorphosis, Fatty	
Lung		Leukocytosis, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Spleen		Hematopoiesis	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Congestion, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_587	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperplasia, Hematopoietic	
Kidney		Mixed Tumor, Malignant	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_588	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
		Mixed Tumor, Malignant	
Liver		Hepatitis, Toxic	
Lung		Hyperplasia, Alveolar Epithelium	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_589	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Mammary gland		Galactocoele	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_590	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Parasitism	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Cervix Uteri	Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_591	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_592	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_593	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Clitoral gland		Carcinoma, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Hepatocellular Carcinoma	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Abdominal Cavity	Steatitis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_594	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_595	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney Liver	Transverse Colon, Colon	Adenomatous Polyp, Nos Mineralization Focal Cellular Change Hepatitis, Toxic Hyperplasia, Focal	
Pituitary gland Thyroid		Hypertrophy, Focal Follicular-Cell Adenoma Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_596	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Cyst, Nos	
Spleen		Hemosiderosis	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_597	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_598	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Descending, Colon	Parasitism	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Hyperplasia, Focal	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Diaphragm Nos	Hernia, Nos	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_599	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Myocardium Nos	Degeneration, Lipoid	
Heart		Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
	Multiple Organs Nos	Hyperplasia, Focal	
Lung		Inflammation, Interstitial	
Mammary gland		Galactoceles	
Thyroid		Follicular-Cell Carcinoma	
Unspecified		Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_600	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Thyroid		Hyperplasia, C Cell	
Unspecified	Diaphragm Nos	Hernia, Nos	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_601	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Pigmentation, Nos	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_602	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Mineralization Pigmentation, Nos	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_603	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mixed Tumor, Malignant	
Liver		Necrosis, Coagulative	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_604	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Focal	
		Neoplastic Nodule	
Lung		Inflammation, Acute/Chronic	
Spleen		Fibrosis, Focal	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Cervix Uteri	Hyperplasia, Stromal	
	Cervix Uteri	Inflammation, Granulomatous	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_605	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Lymph node	Cervical Lymph Node Nos	Hemorrhage	
	Mandibular Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_606	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Necrosis, Coagulative	
Lung		Congestion, Nos	
Unspecified	Multiple Organs Nos	Sarcoma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_607	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Inflammation, Chronic	
		Necrosis, Coagulative	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_608	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Mammary gland		Galactocеле	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_609	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos	
Liver		Focal Cellular Change Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_610	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Carcinosarcoma	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Carcinosarcoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_611	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_612	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Unspecified	Neck	Fibrosarcoma	
Uterus	Endometrium	Hyperplasia, Nos	
	Cervix Uteri	Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_613	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Kidney		Cast, Nos Mineralization	
Liver		Mixed Tumor, Malignant Focal Cellular Change Hepatocellular Carcinoma	
Spleen		Fibrosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_614	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
Liver		Inflammation, Granulomatous	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_615	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Adenoma	
		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_616	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Fibrosis, Focal	
		Focal Cellular Change	
		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_617	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
		Nephrosis, Hydro	
Liver		Inflammation, Chronic	
		Necrosis, Coagulative	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
Uterus	Endometrium	Hyperplasia, Cystic	
		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_618	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Descending, Colon	Adenomatous Polyp, Nos Cast, Nos Cyst, Nos Mineralization	
Liver		Angiectasis Focal Cellular Change	
Lung Pituitary gland		Inflammation, Chronic Angiectasis Cyst, Nos	
Spleen Thyroid		Hemosiderosis Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_619	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lung		Inflammation, Interstitial	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Infarct, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_620	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Clitoral gland		Inflammation, Suppurative	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Dilatation, Ducts	
		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_621	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon Colon Cecum, Colon	Inflammation, Acute/Chronic Inflammation, Chronic Ulcer, Nos	
Kidney		Mineralization	
Lung		Leukocytosis, Nos	
Lymph node	Mediastinal Lymph Node Mediastinal Lymph Node Mesenteric Lymph Node Ileocolic Lymph Node	Congestion, Nos Hyperplasia, Plasma Cell Hyperplasia, Plasma Cell Inflammation, Suppurative	
Spleen		Myelopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_622	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Leiomyosarcoma	
Intestine Small	Mesentery Nos	Inflammation, Acute/Chronic	
	Mesentery Nos	Necrosis, Fat	
Kidney		Inflammation, Suppurative	
Liver		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lung		Inflammation, Acute/Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Pancreatic Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Edema, Nos	
Spleen		Fibrosis	
		Hemosiderosis	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_623	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_624	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Spleen		Fibrosis	
		Hemorrhage	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_625	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_626	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Ascending Colon, Colon	Pheochromocytoma	
Intestine Large		Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Angiectasis	
	Multiple Organs Nos	Hyperplasia, Nos	
		Metamorphosis, Fatty	
Unspecified		Leukemia, Monocytic	
Zymbal gland		Dilatation, Ducts	
		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_627	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_628	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Thyroid		Hyperplasia, C Cell	
Tongue		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_629	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
	Colon	Parasitism	
Kidney		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
		Hepatitis, Toxic	
Lung		Alveolar/Bronchiolar Adenoma	
Lymph node	Ileocolic Lymph Node	Mucinous Cystadenocarcinoma, Metastatic	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_630	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Inflammation, Granulomatous	
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Cervical Lymph Node Nos	Lymphangiectasis	
	Mandibular Lymph Node	Lymphangiectasis	
Oral mucosa	Mouth Nos	Squamous Cell Carcinoma, Invasive	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_631	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_632	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hepatitis, Toxic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_633	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Intestine Large	Ascending Colon, Colon	Signet Ring Carcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Inflammation, Granulomatous	
Pituitary gland		Cyst, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_634	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_635	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_636	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Lymph node	Ileocolic Lymph Node	Mucinous Cystadenocarcinoma, Metastatic	
Spleen		Hematopoiesis	
Stomach		Acanthosis	
Thyroid		Follicular-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
		Necrosis, Fat	
		Steatitis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_637	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Descending, Colon	Adenomatous Polyp, Nos Cast, Nos Mineralization	
Liver Mammary gland Pituitary gland Thyroid		Hepatitis, Toxic Galactoceles Adenoma, Nos Hyperplasia, C Cell	
Unspecified Zymbal gland	Multiple Organs Nos	Leukemia, Monocytic Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_638	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Medulla	Hyperplasia, Focal	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
		Inflammation, Granulomatous	
		Neoplastic Nodule	
		Periarteritis	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Carcinoma	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_639	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_640	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
Intestine Large	Ascending Colon, Colon	Degeneration, Nos	
	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Adenomatous Polyp, Nos	
		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Pigmentation, Nos	
		Focal Cellular Change	
		Hepatocellular Carcinoma	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_641	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Fibrosis, Myelo	
Clitoral gland		Carcinoma, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Spleen		Fibrosis	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_642	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Pheochromocytoma, Malignant	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Congestion, Nos	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_643	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon Transverse Colon, Colon	Adenomatous Polyp, Nos Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Cyst, Nos	
Spleen		Infarct, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_644	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Degeneration, Cystic	
		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
		Hyperplasia, Nos	
Pancreas		Acinar-Cell Adenoma	
Pituitary gland		Cyst, Nos	
Spleen		Fibrosis	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_645	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Cecum, Colon	Signet Ring Carcinoma Mineralization Nephrosis, Hydro	
Unspecified	Multiple Organs Nos	Signet Ring Carcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_646	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_647	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Lung		Inflammation, Acute/Chronic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_648	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_649	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hyperplasia, Focal Neoplastic Nodule	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_650	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Focal	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_651	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_652	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Mammary gland		Galactoceles	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_653	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
	Medulla	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Acute/Chronic	
		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
Vagina		Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_654	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Lung		Congestion, Nos	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_655	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Focal	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_656	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma	
Bone	Sternum	Hyperostosis	
Intestine Large	Descending, Colon	Adenocarcinoma In Adenomatous Polyp	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Diaphragm Nos	Hernia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_657	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_658	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Adenomatous Polyp, Nos	
Intestine Small	Duodenum	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Oral mucosa	Mouth Nos	Abscess, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_659	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_660	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Necrosis, Coagulative	
Lung		Congestion, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Stomach		Inflammation, Acute	
		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Mixed Tumor, Metastatic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_661	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
	Serosa, Colon	Mucinous Cystadenocarcinoma, Metastatic	
Kidney		Mineralization	
Lung		Congestion, Nos	
Lymph node	Ileocolic Lymph Node	Mucinous Cystadenocarcinoma, Metastatic	
Stomach		Acanthosis	
		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_662	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Carcinoma	
		Cystic Follicles	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_663	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Hemorrhage	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Cyst, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_664	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung	Alveoli	Histiocytosis	
		Inflammation, Interstitial	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Cyst, Nos	
Spleen		Fibrosis, Focal	
Thyroid		C-Cell Adenoma	
		C-Cell Carcinoma	
Unspecified		Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_665	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
	Cortex Nos	Hypertrophy, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Bone	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Skin		Basal-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_666	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_667	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_668	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Nos	
Spleen		Infarct, Nos	
Tongue		Squamous Cell Papilloma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_669	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_670	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
Mammary gland		Dilatation, Ducts	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_671	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_672	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Carcinoma, Nos, Invasive	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_673	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos	
	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Ileocolic Lymph Node	Lymphangiectasis	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_674	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Cortex Nos	Angiectasis Metamorphosis, Fatty Pheochromocytoma	
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Hepatitis, Toxic Hepatocellular Carcinoma	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Stomach	Submucosa	Edema, Nos Ulcer, Acute	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_675	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_676	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Hyperplasia, Epithelial	
		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Hyperplasia, Nos	
Pituitary gland	Intermedia	Adenoma, Nos	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_677	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Degeneration, Cystic	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Hyperkeratosis	
Thyroid		C-Cell Adenoma	
Zymbal gland		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_678	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Intestine Small	Mesentery Nos	Inflammation, Chronic	
	Mesentery Nos	Necrosis, Fat	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Uterus		Hydrometra	
	Endometrium	Hyperplasia, Cystic	
Zymbal gland		Hyperkeratosis	
		Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_679	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
		Galactoceles	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_680	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Degeneration, Nos Hemorrhage Inflammation, Suppurative	
Kidney		Mineralization	
Liver		Focal Cellular Change Hepatitis, Toxic Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland	Mediastinal Lymph Node	Lymphangiectasis	
Thyroid		Fibroadenoma	
Unspecified		Hyperplasia, C Cell	
Zymbal gland	Multiple Organs Nos	Leukemia, Monocytic Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_681	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_682	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hepatitis, Toxic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_683	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Thyroid		Cystic Follicles	
		Hyperplasia, Nos	
Zymbal gland		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_684	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_685	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Focal	
		Neoplastic Nodule	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_686	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_687	TRT#: 2 DOSE: 0	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Descending, Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Pigmentation, Nos	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	C-Cell Carcinoma, Metastatic	
	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_688	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Liver		Necrosis, Coagulative	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_689	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 0	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_690	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Renal Lymph Node	Hyperplasia, Reticulum Cell	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_691	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Inflammation, Chronic	
Lung		Hyperplasia, Alveolar Epithelium	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_692	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Colon	Adenomatous Polyp, Nos Cast, Nos Inflammation, Chronic Mineralization	
Liver		Focal Cellular Change Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_693	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Inflammation, Chronic	
		Necrosis, Coagulative	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_694	TRT#: 2 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Colon	Parasitism	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Acute/Chronic	
		Inflammation, Chronic	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_695	TRT#: 2 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatocellular Carcinoma	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_000	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Medulla	Hyperplasia, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Acute	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_001	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_002	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Inflammation, Chronic	
		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
Pituitary gland		Cyst, Nos	
		Hypertrophy, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_003	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain		Carcinoma, Nos, Invasive	
Kidney		Cast, Nos	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_004	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Ovary		Granulosa-Cell Tumor	
Pituitary gland		Adenoma, Nos	
		Angiectasis	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
		Hydrometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_005	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
		Pigmentation, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas		Atrophy, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Abdominal Cavity	Necrosis, Fat	
	Abdominal Cavity	Steatitis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_006	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Kidney		Cast, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Galactoceles	
Pancreas	Islets	Hyperplasia, Nos	
Pituitary gland		Hyperplasia, Focal	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_007	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
	Renal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas		Acinar-Cell Adenoma	
		Atrophy, Nos	
	Islets	Islet-Cell Adenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
Uterus	Endometrium	Hyperplasia, Nos	
		Inflammation, Suppurative	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_008	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos Hemosiderosis Acanthosis Inflammation, Acute/Chronic Squamous Cell Carcinoma Endometrial Stromal Polyp	
Spleen			
Stomach			
Unspecified	Face		
Uterus			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_009	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Brain	Ventricle	Dilatation, Nos	
Clitoral gland		Carcinoma, Nos	
Eye	Retina	Cataract Degeneration, Nos Inflammation, Chronic	
Kidney		Cast, Nos Inflammation, Chronic	
Liver		Hyperplasia, Nos Inflammation, Granulomatous Metamorphosis, Fatty Necrosis, Coagulative	
Lymph node	Mandibular Lymph Node Mediastinal Lymph Node Mediastinal Lymph Node	Hyperplasia, Plasma Cell Hyperplasia, Reticulum Cell Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Stomach		Inflammation, Acute/Chronic Ulcer, Perforated	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_010	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
		Necrosis, Coagulative	
Lung		Thrombus, Fibrin	
Lymph node	Cervical Lymph Node Nos	Congestion, Nos	
	Mandibular Lymph Node	Congestion, Nos	
	Mediastinal Lymph Node	Congestion, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hematopoiesis	
Stomach		Leiomyosarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011	TRT#: 3	SEX: Female	DAY ON TEST:		
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:		
OBSERVATIONS					
Kidney		Mineralization			
PRIMARY CAUSE OF DEATH					
-					

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_012	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Galactoceles	
Ovary		Granulosa-Cell Tumor	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Urinary bladder		Hyperplasia, Epithelial	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_013	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung		Squamous Cell Carcinoma, Metastatic	
Lymph node	Mandibular Lymph Node	Squamous Cell Carcinoma, Metastatic	
Spleen		Hemosiderosis	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_014	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_015	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_016	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Reticulum Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Pigmentation, Nos	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_017	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
		Hemosiderosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_018	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland Kidney	Cortex Nos	Metamorphosis, Fatty Cast, Nos Inflammation, Chronic Mineralization Pigmentation, Nos	
Liver		Focal Cellular Change Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node Mandibular Lymph Node Mesenteric Lymph Node	Hyperplasia, Reticulum Cell Pigmentation, Nos Pigmentation, Nos	
Mammary gland Pituitary gland Spleen		Fibroadenoma Adenoma, Nos Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_019	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_020	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Mineralization	
Liver		Pigmentation, Nos Focal Cellular Change Inflammation, Granulomatous Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node Mesenteric Lymph Node Pancreatic Lymph Node	Hyperplasia, Plasma Cell Pigmentation, Nos Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach	Submucosa	Edema, Nos Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_021	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_022	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Bone	Sternum	Hyperostosis	
Eye		Cataract	
		Hemorrhage	
		Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Lymphoma, Histiocytic-Malignant Type	
Pituitary gland		Adenoma, Nos	
Stomach		Necrosis, Focal	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_023	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland Intestine Large Kidney	Colon	Cortical Carcinoma Parasitism Cast, Nos Inflammation, Chronic Mineralization Pigmentation, Nos Hyperplasia, Plasma Cell Fibroadenoma Galactoceles Hemosiderosis C-Cell Carcinoma Cortical Carcinoma, Metastatic	
Lymph node Mammary gland	Mandibular Lymph Node		
Spleen Thyroid Unspecified	Multiple Organs Nos		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_024	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Fibrosis	
		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
	Hepatic Sinusoid	Leukocytosis, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Lymphoma, Histiocytic-Malignant Type	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactocoele	
Pituitary gland		Cyst, Nos	
Spleen		Hematopoiesis	
		Hemosiderosis	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Foot Nos	Fibroma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_025	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatocellular Carcinoma	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Cystic Follicles	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_026	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Lung		Inflammation, Interstitial	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Inflammation, Suppurative	
	Mediastinal Lymph Node	Pigmentation, Nos	
Oral mucosa	Mouth Nos	Squamous Cell Carcinoma	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_027	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Necrosis, Coagulative	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Galactocoele	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_028		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland		Cortex Nos	Metamorphosis, Fatty	
Bone		Skull	Hyperostosis	
		Sternum	Hyperostosis	
Eye			Cataract	
		Retina	Degeneration, Nos	
Heart		Myocardium Nos	Fibrosis	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Pigmentation, Nos	
Liver			Focal Cellular Change	
Lymph node		Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland			Fibroadenoma	
Parathyroid gland			Hyperplasia, Nos	
Pituitary gland			Inflammation, Chronic	
			Pigmentation, Nos	
Skin			Keratoacanthoma	
Spleen			Hemosiderosis	
Thyroid			Hyperplasia, C Cell	
Unspecified		Abdominal Cavity	Steatitis	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_029	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactocele	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_030	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
		Pigmentation, Nos	
Ovary		Cyst, Parovarian	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_031	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Cyst, Nos	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactocoele	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_032	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_033	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Bone	Sternum	Fibrosis, Myelo	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Galactocoele	
Ovary		Cyst, Nos	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
		Cyst, Nos	
Thyroid		C-Cell Adenoma C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_034	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_035	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Ovary		Cyst, Parovarian	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_036	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
	Cortex Nos	Degeneration, Cystic	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
		Hyperplasia, Focal	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_037	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Carcinoma, Nos, Invasive	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung		Alveolar/Bronchiolar Adenoma	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas		Acinar-Cell Adenoma	
	Islets	Islet-Cell Carcinoma	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
		Ulcer, Acute	
Thyroid		C-Cell Carcinoma	
Unspecified		Fibrosarcoma	
	Multiple Organs Nos	Pigmentation, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_038	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Angiectasis	
Lung		C-Cell Carcinoma, Metastatic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_039	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
Lung		Hyperplasia, Alveolar Epithelium	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_040	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Carcinoma	
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Ovary		Cyst, Nos	
Unspecified	Multiple Organs Nos	Cortical Carcinoma, Metastatic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_041	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Back	Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Pyometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_042	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_043	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Small	Ileum	Inflammation, Acute	
	Ileum	Ulcer, Acute	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Necrosis, Nos	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Oral mucosa	Palate	Squamous Cell Papilloma	
Ovary		Cyst, Nos	
Pituitary gland		Angiectasis	
		Pigmentation, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_044		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland Kidney	Cortex Nos		Metamorphosis, Fatty Mineralization Pigmentation, Nos Focal Cellular Change Hematopoiesis	
Liver				
Lymph node	Mediastinal Lymph Node		Hemorrhage	
	Pancreatic Lymph Node		Hemorrhage	
	Mediastinal Lymph Node		Pigmentation, Nos	
	Pancreatic Lymph Node		Pigmentation, Nos	
Mammary gland			Galactocoele	
Ovary			Cyst, Parovarian	
Pituitary gland			Adenoma, Nos	
Spleen			Hematopoiesis	
			Hemosiderosis	
Thyroid			Cystic Follicles	
Unspecified	Multiple Organs Nos		Hyperplasia, Plasma Cell	
	Multiple Organs Nos		Inflammation, Suppurative	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_045	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_046		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS				
Bone	Sternum	Fibrosis, Myelo		
	Sternum	Hyperostosis		
Heart	Myocardium Nos	Inflammation, Chronic		
Kidney		Cast, Nos		
		Inflammation, Chronic		
		Mineralization		
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell		
	Mediastinal Lymph Node	Pigmentation, Nos		
Mammary gland		Fibroadenoma		
		Galactoceles		
Pancreas		Atrophy, Nos		
Pituitary gland		Adenoma, Nos		
Spleen		Fibrosis		
		Hemosiderosis		
	Capsule	Inflammation, Chronic		
Thyroid		C-Cell Adenoma		
Uterus	Endometrium	Cyst, Nos		
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_047	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Cast, Nos	
Liver		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Skin		Basal-Cell Carcinoma	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_048	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Carcinoma, Nos, Invasive	
Kidney		Cast, Nos	
		Mineralization	
Liver	Periportal	Fibrosis	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_049	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Ovary		Cyst, Nos	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_050	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Bone	Sternum	Fibrosis, Myelo	
	Sternum	Hyperostosis	
Ear		Cyst, Nos	
Heart	Myocardium Nos	Fibrosis	
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Pigmentation, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Unspecified	Diaphragm Nos	Hernia, Nos	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_051	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_052	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Angiectasis	
		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Thrombus, Fibrin	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Pituitary gland		Angiectasis	
		Hyperplasia, Focal	
Skin		Squamous Cell Papilloma	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_053	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Clitoral gland		Carcinoma, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Leukocytosis, Nos	
Lung		Inflammation, Chronic	
Lymph node	Celiac Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Ovary		Granulosa-Cell Tumor	
Pituitary gland		Adenoma, Nos	
Skin	Vulva Nos	Fibrosarcoma, Invasive	
Spleen		Hematopoiesis	
Stomach		Carcinoid Tumor, Nos	
Thyroid		Cystic Follicles	
		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
Vagina		Fibrosarcoma	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_054	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_055	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Fibrosis	
		Cast, Nos	
		Mineralization	
Liver		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Unspecified	Head	Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_056	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Atrophy, Nos	
		Cortical Carcinoma	
Bone	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Cortical Carcinoma, Metastatic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
		Cystic Follicles	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_057	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Angiectasis	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Mammary gland		Fibroadenoma	
Pancreas		Acinar-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_059	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_060	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Degeneration, Cystic	
Clitoral gland		Dilatation, Ducts	
		Hyperplasia, Epithelial	
Eye		Cataract	
	Retina	Degeneration, Nos	
		Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Parathyroid gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_061	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Brain		Carcinoma, Nos, Invasive	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
		Pigmentation, Nos	
Mammary gland		Carcinoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_062	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_063	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Maxilla	Squamous Cell Carcinoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
		Pigmentation, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_064	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
		Neoplastic Nodule	
Pancreas	Islets	Islet-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_065	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Metamorphosis, Fatty	
		Necrosis, Coagulative	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_066	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland		Abscess, Nos	
		Carcinoma, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Pigmentation, Nos	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas		Acinar-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Skin		Squamous Cell Papilloma	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_067	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Skin	Tail	Squamous Cell Papilloma	
Spleen		Hemosiderosis	
Stomach	Submucosa	Edema, Interstitial	
		Inflammation, Acute	
		Ulcer, Acute	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Perineum Nos	Fibrosarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_068	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart		Adenocarcinoma, Nos, Metastatic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Lung		Adenocarcinoma, Nos, Metastatic	
Lymph node	Axillary Lymph Node	Adenocarcinoma, Nos, Metastatic	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_069	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Infarct, Acute	
Thyroid		Follicular-Cell Carcinoma	
		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Back	Lipoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_070	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		C-Cell Carcinoma, Metastatic	
Lymph node	Mediastinal Lymph Node	C-Cell Carcinoma, Metastatic	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_071	TRT#: 3	SEX: Female	DAY ON TEST:		
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:		
OBSERVATIONS					
Kidney		Mineralization			
PRIMARY CAUSE OF DEATH					
-					

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_072	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_073	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
Liver		Focal Cellular Change	
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Parathyroid gland		C-Cell Carcinoma, Invasive	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_074	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Eye	Retina	Cataract	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Fibrosis Cast, Nos Inflammation, Chronic Mineralization	
Liver		Inflammation, Granulomatous	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Nos	
Pituitary gland		Cyst, Nos Hypertrophy, Focal	
Spleen		Hemosiderosis	
Thyroid		Cystic Follicles	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_075	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Galactocoele	
Pituitary gland		Adenoma, Nos	
Stomach		Acanthosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_076	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Necrosis, Nos	
Clitoral gland		Carcinoma, Nos	
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Stomach	Submucosa	Edema, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_077	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Heart	Myocardium Nos	Fibrosis	
Kidney		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lung		Inflammation, Chronic	
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Unspecified	Chest	Fibroma	
Uterus		Thrombus, Fibrin	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_078	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Degeneration, Cystic	
Clitoral gland		Carcinoma, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
		Pigmentation, Nos	
Lung		Inflammation, Chronic	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_079	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Mammary gland		Carcinoma, Nos	
		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Uterus	Cervix Uteri	Fibroma	
	Endometrium	Hyperplasia, Cystic	
	Cervix Uteri	Inflammation, Suppurative	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_080	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Clitoral gland		Carcinoma, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Pigmentation, Nos	
Spleen		Hemosiderosis	
Stomach		Inflammation, Acute	
		Ulcer, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_081	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland Kidney	Cortex Nos	Metamorphosis, Fatty Cast, Nos Inflammation, Chronic Mineralization	
Liver Lymph node	Bile Duct Mandibular Lymph Node Mediastinal Lymph Node	Hyperplasia, Nos Hyperplasia, Plasma Cell Pigmentation, Nos Fibroadenoma Angiectasis Pigmentation, Nos Follicular-Cell Adenoma	
Mammary gland Pituitary gland		Leukemia, Monocytic Hydrometra	
Thyroid Unspecified Uterus	Multiple Organs Nos		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_082	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lung		Inflammation, Chronic	
Mammary gland		Galactoceles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_083	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_084	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_085	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis	
Bone	Sternum	Hyperostosis	
Kidney		Mineralization	
		Pigmentation, Nos	
Lung		Congestion, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_086	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos Mineralization	
Liver		Pigmentation, Nos Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Pigmentation, Nos Hyperplasia, Plasma Cell	
Mammary gland	Mediastinal Lymph Node	Pigmentation, Nos Fibroadenoma	
Pituitary gland		Galactoceles	
Spleen		Hyperplasia, Focal	
Thyroid		Hemosiderosis	
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell	
Uterus	Endometrium	Inflammation, Chronic Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_087	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Diaphragm Nos	Hernia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_088	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Cortex Nos Cortex Nos	Degeneration, Cystic Hyperplasia, Focal Metamorphosis, Fatty	
Eye	Retina	Cataract Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos Inflammation, Chronic Mineralization Pigmentation, Nos Focal Cellular Change	
Liver		Hemorrhage	
Lymph node	Mediastinal Lymph Node Cervical Lymph Node Nos Mediastinal Lymph Node	Pigmentation, Nos Pigmentation, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_089	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain		Carcinoma, Nos, Invasive	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_090	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Inflammation, Chronic Mineralization	
Liver		Focal Cellular Change Hematopoiesis Pigmentation, Nos	
Lung		Inflammation, Interstitial	
Lymph node	Mesenteric Lymph Node Pancreatic Lymph Node Mediastinal Lymph Node Mesenteric Lymph Node	Hyperplasia, Reticulum Cell Hyperplasia, Reticulum Cell Pigmentation, Nos Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_091	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Pigmentation, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_092	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Carcinoma, Nos, Invasive	
Clitoral gland		Carcinoma, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_093	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Necrosis, Coagulative	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_094	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Necrosis, Nos	
Clitoral gland		Abscess, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Salivary gland		Inflammation, Suppurative	
Spleen		Hematopoiesis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_095	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
Lung	Bronchus	Edema, Nos	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
		Pigmentation, Nos	
Uterus	Cervix Uteri	Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_096	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Infarct, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_097	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
	Celiac Lymph Node Mandibular Lymph Node Celiac Lymph Node Celiac Lymph Node	Inflammation, Chronic	
Liver		Pigmentation, Nos	
Lymph node		Focal Cellular Change	
		Fibrosis	
		Hyperplasia, Plasma Cell	
	Islets	Lymphangiectasis	
		Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pancreas		Islet-Cell Adenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen	Cervix Uteri	Hematopoiesis	
Thyroid		Inflammation, Chronic Focal	
Urinary bladder		Hyperplasia, Epithelial	
		Inflammation, Granulomatous	
Uterus		Cyst, Nos	
		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_098	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Ovary		Mineralization	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Angiectasis	
		Pigmentation, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_099	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Carcinoma, Nos, Invasive	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_100	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_101	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Necrosis, Coagulative	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Urinary bladder		Hyperplasia, Epithelial	
		Inflammation, Granulomatous	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_102

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Spinal cord

Spleen

Thyroid

Mineralization

Oligodendroglioma

Hemosiderosis

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_103	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Cortex Nos Medulla	Hypertrophy, Focal Metamorphosis, Fatty Pheochromocytoma	
Eye	Retina	Cataract Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos Cyst, Nos Inflammation, Chronic Mineralization	
Liver	Bile Duct	Focal Cellular Change Hyperplasia, Nos Inflammation, Granulomatous Pigmentation, Nos Hyperplasia, Alveolar Epithelium	
Lung		Galactoceles	
Mammary gland		Atrophy, Nos	
Pancreas		Hemosiderosis	
Spleen		Adenomatous Polyp, Nos	
Stomach		Inflammation, Chronic Focal C-Cell Carcinoma	
Thyroid		Steatitis	
Unspecified	Abdominal Cavity		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_104	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Mammary gland		Galactocoele	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_105	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver	Bile Duct	Hyperplasia, Nos	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Oral mucosa	Oral Cavity	Inflammation, Suppurative	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_106	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas		Atrophy, Nos	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_107	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
		Fibroma	
Harderian gland	Hardarian Gland	Atrophy, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
		Thrombus, Organized	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_108	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Pigmentation, Nos	
Liver		Inflammation, Suppurative	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Carcinoma, Nos	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Thyroid		C-Cell Adenoma	
		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_109	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
		Necrosis, Coagulative	
		Pigmentation, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
	Mandibular Lymph Node	Squamous Cell Carcinoma, Metastatic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Salivary gland		Inflammation, Chronic	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_110	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Salivary gland		Adenocarcinoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_111	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Carcinoma	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Ovary		Cyst, Parovarian	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
		Inflammation, Suppurative	
		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_112	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Congestion, Nos	
Spleen		Hemosiderosis	
Stomach		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_113	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Brain	Ventricle	Dilatation, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
		Metamorphosis, Fatty	
Liver		Galactoceles	
Mammary gland		Cyst, Nos	
Ovary		Adenoma, Nos	
Pituitary gland		Hemosiderosis	
Spleen		Hyperkeratosis	
Stomach			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_114	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Fibrosis	
		Cast, Nos	
		Inflammation, Chronic	
Liver		Mineralization	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_115	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Hyperplasia, Focal	
Thyroid		Hyperplasia, C Cell	
Uterus	Cervix Uteri	Hyperplasia, Epithelial	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_116	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung	Alveoli	Histiocytosis	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Carcinoid Tumor, Nos	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_117	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung	Alveoli	Histiocytosis	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_118	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Diaphragm Nos	Hernia, Nos	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_119	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Submucosa, Colon	Fibrosis, Focal	
	Cecum, Colon	Parasitism	
Kidney		Cast, Nos	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
		Necrosis, Coagulative	
Lymph node	Ileocolic Lymph Node	Inflammation, Suppurative	
	Mesenteric Lymph Node	Inflammation, Suppurative	
	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Galactoceles	
Thyroid		Hyperplasia, C Cell	
Unspecified	Thorax	Fibroma	
	Multiple Organs Nos	Leukemia, Mononuclear Cell	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_120	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Hyperplasia, Focal	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
Thyroid		Follicular-Cell Adenoma	
Uterus		Leiomyoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_121	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Spleen		Hemosiderosis	
Stomach		Hyperkeratosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_122	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Parovarian	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_123	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Brain		Carcinoma, Nos, Invasive	
Clitoral gland		Carcinoma, Nos	
Kidney		Cast, Nos Inflammation, Chronic Mineralization Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Carcinoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_124	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain	Meninges	Inflammation, Acute/Chronic	
Kidney		Mineralization	
Liver		Inflammation, Acute/Chronic	
		Necrosis, Coagulative	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Inflammation, Acute/Chronic	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_125		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland		Cortex Nos	Metamorphosis, Fatty	
Bone		Sternum	Hyperostosis	
Eye			Cataract	
		Retina	Degeneration, Nos	
Intestine Large		Serosa, Colon	Inflammation, Chronic	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Mineralization	
			Pigmentation, Nos	
Liver			Focal Cellular Change	
		Hepatic Sinusoid	Leukocytosis, Nos	
Lymph node		Mandibular Lymph Node	Hyperplasia, Plasma Cell	
		Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland			Adenoma, Nos	
			Fibroadenoma	
Pituitary gland			Adenoma, Nos	
Spleen			Hematopoiesis	
Thyroid			Hyperplasia, C Cell	
Uterus		Cervix Uteri	Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_126	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Interstitial	
Mammary gland		Fibroadenoma	
Pancreas		Acinar-Cell Adenoma	
Thyroid		C-Cell Adenoma	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_127	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Astrocytoma	
Kidney		Mineralization	
		Pigmentation, Nos	
Lung		Inflammation, Chronic	
Pituitary gland		Cyst, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_128	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_129	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis	
	Medulla	Hyperplasia, Focal	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver	Periportal	Fibrosis	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mandibular Lymph Node	Squamous Cell Carcinoma, Metastatic	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Adenoma	
		Hyperplasia, C Cell	
Unspecified	Diaphragm Nos	Hernia, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_130	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Mineralization	
Lung		Alveolar/Bronchiolar Carcinoma	
Lymph node	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell	
Unspecified	Multiple Organs Nos	Alveolar/Bronchiolar Carcinoma, Metastatic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_131	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Ulcer, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_132	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_133	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Ovary		Papillary Adenocarcinoma	
Unspecified	Multiple Organs Nos	Papillary Adenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_134	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_135	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_136	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Mediastinum Nos	Inflammation, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_137	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Brain		Hemorrhage	
Clitoral gland		Carcinoma, Nos	
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos	
Liver		Focal Cellular Change	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_138	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Pigmentation, Nos	
Liver		Inflammation, Granulomatous	
Lung		Hyperplasia, Alveolar Epithelium	
		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_139	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Clitoral gland		Dilatation, Ducts	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
Unspecified	Groin	Fibroma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_140	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Clitoral gland		Carcinoma, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Necrosis, Coagulative	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Leg	Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_141	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Brain		Carcinoma, Nos, Invasive	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_142	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_143	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Brain		Carcinoma, Nos, Invasive	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_144	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Angiectasis	
		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Stomach		Ulcer, Acute	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_145	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Pituitary gland		Hypertrophy, Focal	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_146	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Carcinoma	
	Medulla	Hyperplasia, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_147	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Mammary gland		Galactoceles	
Stomach		Inflammation, Suppurative	
		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_148	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Uterus	Cervix Uteri	Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_149	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Clitoral gland		Squamous Cell Carcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
		Galactocoele	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_150	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Spleen		Hemosiderosis	
Stomach		Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_151	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_152	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_153	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Stomach		Inflammation, Suppurative	
		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Adenoma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_154	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain		Astrocytoma	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Cecum, Colon	Ulcer, Acute	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Mammary gland		Galactocoele	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Hyperkeratosis	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Thyroid		Cystic Follicles	
		Hyperplasia, C Cell	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_155	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney	Mediastinal Lymph Node	Mineralization	
		Pigmentation, Nos	
Lymph node		Hemorrhage	
		Hyperplasia, Plasma Cell	
		Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Carcinoma	
Unspecified	Groin	Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_156	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Mineralization	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_157		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland			Cortical Adenoma	
			Degeneration, Cystic	
Bone	Skull		Hyperostosis	
	Sternum		Hyperostosis	
Eye			Cataract	
	Retina		Degeneration, Nos	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Mineralization	
			Pigmentation, Nos	
Liver			Focal Cellular Change	
Lymph node	Mandibular Lymph Node		Hyperplasia, Plasma Cell	
Mammary gland			Fibroadenoma	
			Galactoceles	
Pituitary gland			Angiectasis	
			Hypertrophy, Focal	
Spleen			Hemosiderosis	
Thyroid			Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_158		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland		Cortex Nos	Metamorphosis, Fatty	
Bone		Sternum	Hyperostosis	
Eye			Cataract	
		Retina	Degeneration, Nos	
			Inflammation, Suppurative	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Mineralization	
Liver			Metamorphosis, Fatty	
Lymph node		Mediastinal Lymph Node	Hemorrhage	
		Axillary Lymph Node	Hyperplasia, Plasma Cell	
		Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
		Mandibular Lymph Node	Hyperplasia, Plasma Cell	
		Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland			Galactoceles	
Pituitary gland			Angiectasis	
Spleen			Hemosiderosis	
Stomach			Acanthosis	
			Inflammation, Acute/Chronic	
Thyroid			C-Cell Adenoma	
Unspecified		Head	Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_159	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Brain		Astrocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_160	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
		Necrosis, Coagulative	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Uterus	Cervix Uteri	Hyperplasia, Stromal	
Vagina		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_161	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_162	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Hyperplasia, Focal	
		Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_163	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Clitoral gland		Inflammation, Suppurative	
		Squamous Cell Carcinoma	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Mammary gland		Galactoceles	
Oral mucosa	Mouth Nos	Abscess, Nos	
Spleen		Hemosiderosis	
Thymus		Cyst, Nos	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_164	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Eye	Retina	Cataract	
Kidney		Degeneration, Nos	
		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Pigmentation, Nos	
Pituitary gland		Galactoceles	
Thyroid		Angiectasis	
Unspecified	Multiple Organs Nos	C-Cell Carcinoma	
Uterus		Leukemia, Monocytic	
	Endometrium	Endometrial Stromal Polyp	
		Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_165	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mesenteric Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Uterus	Cervix Uteri	Endometrial Stromal Sarcoma	
	Broad Ligament	Leiomyoma	
Vagina		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_166	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Preputial gland		Dilatation, Ducts	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute	
Thyroid		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell	
		Leukemia, Myelomonocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_167	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
		Thrombus, Organized	
Kidney		Mineralization	
		Pigmentation, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Adenoma, Nos	
Skin	Nose	Squamous Cell Papilloma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_168	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
		Pheochromocytoma	
Clitoral gland		Carcinoma, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
		Inflammation, Chronic	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Skin		Inflammation, Chronic	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_169	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid	
	Mesenteric Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Galactocoele	
Skin		Squamous Cell Carcinoma	
Spleen		Hemosiderosis	
Urinary bladder		Hyperplasia, Epithelial	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_170	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		C-Cell Carcinoma, Metastatic	
Lymph node	Cervical Lymph Node Nos	C-Cell Carcinoma, Metastatic	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactocele	
Pancreas		Atrophy, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_171	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_172	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Leiomyoma	
Kidney		Mineralization Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_173	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver	Periportal	Fibrosis	
		Hepatitis, Toxic	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Abdominal Cavity	Steatitis	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_174	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Inflammation, Acute/Chronic	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
		Hyperplasia, Focal	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_175	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_176	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Brain		Astrocytoma	
Kidney		Cast, Nos	
		Cyst, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Suppurative	
		Ulcer, Nos	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_177	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
	Bile Duct	Hyperplasia, Nos	
		Inflammation, Suppurative	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Infarct, Nos	
Thymus		Necrosis, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_178	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Cyst, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
		Galactoceles	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Inflammation, Chronic	
		Necrosis, Focal	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_179	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Carcinoma, Nos, Invasive	
Intestine Large	Cecum, Colon	Inflammation, Suppurative	
	Cecum, Colon	Ulcer, Acute	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Lymph node	Mesenteric Lymph Node	Lymphangiectasis	
Mammary gland		Galactocoele	
Pituitary gland		Carcinoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Diaphragm Nos	Hernia, Nos	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_180	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
		Hyperplasia, Nos	
		Metamorphosis, Fatty	
		Necrosis, Coagulative	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach	Mucosa	Dilatation, Nos	
		Inflammation, Acute/Chronic	
	Mucosa	Necrosis, Nos	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_181	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Hyperplasia, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_182	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_183		TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland			Pheochromocytoma	
Heart		Myocardium Nos	Fibrosis	
Intestine Large		Colon	Parasitism	
Kidney			Mineralization	
			Pigmentation, Nos	
Liver			Inflammation, Granulomatous	
Lung			Inflammation, Chronic	
Lymph node		Mandibular Lymph Node	Hyperplasia, Plasma Cell	
		Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
		Mesenteric Lymph Node	Lymphangiectasis	
		Mediastinal Lymph Node	Pigmentation, Nos	
		Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland			Adenoma, Nos	
			Galactoceles	
Parathyroid gland			C-Cell Carcinoma, Invasive	
Pituitary gland			Adenoma, Nos	
Skin			Basal-Cell Carcinoma	
Spleen			Hematopoiesis	
			Hemosiderosis	
Thyroid			C-Cell Carcinoma	
Uterus			Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_184	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_185	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_186	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_187	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Brain		Carcinoma, Nos, Invasive	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_188	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_189	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Inflammation, Acute Focal	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
Stomach		Ulcer, Acute	
Thyroid		Hyperplasia, C Cell	
Unspecified		Fibrosarcoma	
	Adipose Tissue	Inflammation, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_190	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Pancreas		Atrophy, Nos	
Pituitary gland		Hypertrophy, Focal	
Unspecified		Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_191	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactocoele	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_192	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas		Atrophy, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_193	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
	Cervical Lymph Node Nos	Inflammation, Granulomatous	
		Neoplastic Nodule	
Lung		Hyperplasia, Alveolar Epithelium	
Lymph node		Hyperplasia, Plasma Cell	
		Hyperplasia, Plasma Cell	
	Mammary gland	Pigmentation, Nos	
		Fibroadenoma	
		Galactoceles	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Salivary gland		Inflammation, Chronic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_194	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Carcinoma, Nos, Invasive	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver	Periportal	Fibrosis	
		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lung		Hyperplasia, Alveolar Epithelium	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
Pituitary gland		Carcinoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Diaphragm Nos	Hernia, Nos	
	Multiple Organs Nos	Leukemia, Mononuclear Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_195	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Ovary		Cyst, Parovarian	
Spleen		Hemosiderosis	
Thyroid		Cystic Follicles	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_946	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_947	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Parasitism	
Kidney		Mineralization	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Infarct, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_948	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung	Alveoli	Histiocytosis	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
		Angiectasis	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_949	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Liposarcoma	
		Mineralization	
Mammary gland		Hyperplasia, Nos	
Parathyroid gland		C-Cell Carcinoma, Invasive	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_950	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_951	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_952	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Clitoral gland		Carcinoma, Nos	
Kidney		Pigmentation, Nos	
Lymph node	Ileocolic Lymph Node	Hyperplasia, Lymphoid	
	Mandibular Lymph Node	Hyperplasia, Lymphoid	
	Mediastinal Lymph Node	Hyperplasia, Lymphoid	
	Renal Lymph Node	Hyperplasia, Reticulum Cell	
	Ileocolic Lymph Node	Lymphangiectasis	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Uterus	Endometrium	Carcinoma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_953	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_954	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Spleen		Hemosiderosis	
Thyroid		Cystic Follicles	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_955	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS Pituitary gland Unspecified Uterus	Multiple Organs Nos	Adenoma, Nos Leukemia, Monocytic Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_956	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactocoele	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_957	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid	
	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_958	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Spleen		Hematopoiesis	
Thyroid		Follicular-Cell Adenoma	
Uterus	Cervix Uteri	Endometrial Stromal Sarcoma	
		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_959	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Unspecified	Scalp	Fibrosarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_960	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_961	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Intestine Large	Transverse Colon, Colon	Angiectasis	
Kidney		Cast, Nos	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Lung		Inflammation, Chronic	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_962	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos Mineralization Pigmentation, Nos Leukemia, Monocytic	
Unspecified	Multiple Organs Nos		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_963	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_964	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_965	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Rib	Chondrodystrophy	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart		Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_966	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Kidney		Mineralization	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_967	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_968	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Pericardium Nos	Inflammation, Suppurative	
Lung		Congestion, Nos	
Lymph node	Thoracic Lymph Node	Congestion, Nos	
Ovary		Inflammation, Suppurative	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_969	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_970	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
		Neoplastic Nodule	
Lymph node	Mandibular Lymph Node	Pigmentation, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach	Submucosa	Edema, Nos	
Thyroid		C-Cell Adenoma	
Urinary bladder		Inflammation, Granulomatous	
		Transitional-Cell Papilloma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_971	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_972	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Hyperplasia, Alveolar Epithelium	
		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
		Cystic Follicles	
Unspecified	Axilla	Fibroma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_973	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Bone	Sternum	Fibrosis, Myelo	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_974	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_975	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_976	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_977	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
	Bile Duct	Hyperplasia, Nos	
Lung		Inflammation, Interstitial	
Spleen		Infarct, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_978	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain		Astrocytoma	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_979	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Adenocarcinoma, Nos, Metastatic	
		Inflammation, Interstitial	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Stomach		Hyperplasia, Epithelial	
		Inflammation, Acute/Chronic	
Thyroid		C-Cell Adenoma	
		Cystic Follicles	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_980	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		C-Cell Adenoma	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_981	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver	Submucosa	Metamorphosis, Fatty	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Edema, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_982	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland Kidney	Cortex Nos	Hypertrophy, Focal Cast, Nos Inflammation, Chronic Mineralization	
Liver	Bile Duct	Hyperplasia, Nos Necrosis, Coagulative	
Lymph node Pituitary gland Spleen Thyroid Unspecified	Mediastinal Lymph Node	Pigmentation, Nos Adenoma, Nos Hemosiderosis C-Cell Carcinoma	
	Axilla	Abscess, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_983	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Pericardium Nos	Inflammation, Fibrinous	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver	Capsule	Inflammation, Suppurative	
		Necrosis, Coagulative	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Pancreas		Atrophy, Nos	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Hyperplasia, Focal	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_984	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Spleen		Hematopoiesis	
Stomach		Endometrial Stromal Sarcoma, Metastatic	
		Inflammation, Acute/Chronic	
Thyroid		Hyperplasia, C Cell	
Urinary bladder		Crystals, Nos	
		Hyperplasia, Epithelial	
		Inflammation, Granulomatous	
Uterus		Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_985	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Sternum	Chondrodystrophy	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Lung	Alveolar Wall	Leukocytosis, Nos	
Lymph node	Mesenteric Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Skin	Ear	Squamous Cell Papilloma	
Small intestine	Submucosa	Edema, Nos	
Spleen		Hematopoiesis	
		Hemosiderosis	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_986	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver	Hepatic Sinusoid	Leukocytosis, Nos	
		Metamorphosis, Fatty	
Lung	Alveolar Wall	Leukocytosis, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Spleen		Hematopoiesis	
Unspecified		Fibrosarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_987	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_988	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_989	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Cervical Lymph Node Nos	Hemorrhage	
	Mandibular Lymph Node	Hemorrhage	
	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Cervical Lymph Node Nos	Inflammation, Suppurative	
	Mandibular Lymph Node	Inflammation, Suppurative	
	Cervical Lymph Node Nos	Lymphangiectasis	
	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Salivary gland		Abscess, Chronic	
Spleen		Hemosiderosis	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_990	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Metamorphosis, Fatty	
Ovary		Cyst, Parovarian	
Stomach		Acanthosis	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_991	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_992	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Urinary bladder		Hemorrhage	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_993	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lung		Alveolar/Bronchiolar Adenoma	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_994	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Larynx		C-Cell Carcinoma, Invasive	
		Follicular-Cell Carcinoma, Invasive	
Liver		Focal Cellular Change	
Lung		C-Cell Carcinoma, Metastatic	
		Follicular-Cell Carcinoma, Metastatic	
Lymph node	Cervical Lymph Node Nos	C-Cell Carcinoma, Metastatic	
	Cervical Lymph Node Nos	Follicular-Cell Carcinoma, Metastatic	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_995	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Bone	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Inflammation, Granulomatous	
		Pigmentation, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
Ovary		Cyst, Parovarian	
		Granulosa-Cell Tumor	
Pancreas	Islets	Islet-Cell Carcinoma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_996	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Diverticulum	
Kidney		Cast, Nos	
		Cyst, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pancreas		Atrophy, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Unspecified		Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_997	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_998	TRT#: 3	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Brain	Ventricle	Dilatation, Nos	
Clitoral gland		Carcinoma, Nos	
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Stomach		Acanthosis	
		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_999	TRT#: 3 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lung		Inflammation, Chronic	
Lymph node	Pancreatic Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_371	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_372	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Spleen		Hemosiderosis	
Uterus	Endometrium	Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_373	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Colon	Parasitism	
Intestine Small	Ileum, Ileum	Adenocarcinoma In Adenomatous Polyp	
Kidney		Cast, Nos	
		Mineralization	
Liver		Mixed Tumor, Malignant	
		Focal Cellular Change	
		Hepatocellular Carcinoma	
Pituitary gland		Angiectasis	
Spleen		Hematopoiesis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_374	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver	Mediastinal Lymph Node	Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node		Pigmentation, Nos	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Adenoma	
	Multiple Organs Nos	Hyperplasia, C Cell	
Unspecified		Leukemia, Monocytic	
Zymbal gland		Dilatation, Ducts	
		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_375	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pigmentation, Nos	
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_376	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart		Mixed Tumor, Metastatic	
Kidney		Mixed Tumor, Malignant	
Lung		Mixed Tumor, Metastatic	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_377	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Sarcoma	
	Cervix Uteri	Endometrial Stromal Sarcoma, Invasive	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_378	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Mixed Tumor, Malignant	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Lymphangiectasis	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_379	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Cyst, Nos	
		Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Fibrosis, Focal	
		Hematopoiesis	
Stomach		Inflammation, Chronic	
		Ulcer, Chronic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_380	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland	Descending, Colon	Carcinoma, Nos	
Intestine Large		Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas		Atrophy, Nos	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_381	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Intestine Small	Mesentery Nos	Mixed Tumor, Invasive	
Kidney		Mixed Tumor, Malignant	
Lung		Inflammation, Chronic	
Pancreas		Mixed Tumor, Invasive	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_382	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Cyst, Nos	
		Hepatitis, Toxic	
Lung		Alveolar/Bronchiolar Adenoma	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
		Hemosiderosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_383	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos	Inflammation, Chronic	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_384	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_385	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Inflammation, Chronic	
		Neoplastic Nodule	
Lung		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Cystic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_386	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Pigmentation, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_387	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pancreas		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_388	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Inflammation, Chronic Focal	
		Mixed Tumor, Malignant	
Liver	Bile Duct	Hyperplasia, Nos	
	Hepatic Sinusoid	Leukocytosis, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Cyst, Nos	
Uterus	Endometrium	Cyst, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_389	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_390		TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Brain			Carcinoma, Nos, Invasive	
Intestine Large	Descending, Colon		Adenomatous Polyp, Nos	
Kidney			Cast, Nos	
			Mineralization	
			Mixed Tumor, Malignant	
Liver			Focal Cellular Change	
			Hepatocellular Carcinoma	
			Inflammation, Chronic	
			Metamorphosis, Fatty	
Lung			Hyperplasia, Alveolar Epithelium	
Lymph node	Mandibular Lymph Node		Hemorrhage	
	Mediastinal Lymph Node		Hemorrhage	
	Mandibular Lymph Node		Pigmentation, Nos	
	Mediastinal Lymph Node		Pigmentation, Nos	
Mammary gland			Fibroadenoma	
Pancreas	Islets		Hyperplasia, Nos	
Pituitary gland			Carcinoma, Nos	
Spleen			Hemosiderosis	
Stomach			Inflammation, Acute/Chronic	
			Necrosis, Nos	
Urinary bladder			Inflammation, Granulomatous	
Uterus	Endometrium		Adenoma, Nos	
	Endometrium		Cyst, Nos	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_391	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Osteochondrodystrophy	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
		Cyst, Nos	
		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_392	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenocarcinoma In Adenomatous Polyp	
	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_393	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Intestine Large	Colon	Adenomatous Polyp, Nos	
	Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_394	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_395	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenocarcinoma In Adenomatous Polyp	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_396	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Hypertrophy, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Eye	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
		Galactoceles	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_397	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Inflammation, Acute/Chronic	
	Colon	Ulcer, Chronic	
Kidney		Mineralization	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Cervical Lymph Node Nos	Pigmentation, Nos	
	Mandibular Lymph Node	Pigmentation, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Celiac Lymph Node	Signet Ring Carcinoma, Metastatic	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_398	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Lung		Inflammation, Chronic	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_399	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Bile Duct Adenoma	
		Focal Cellular Change	
		Hepatocellular Carcinoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_400	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Diverticulum	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
		Galactoceles	
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_401	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Astrocytoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_402	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Cyst, Nos	
		Focal Cellular Change	
		Hematopoiesis	
		Hepatocellular Carcinoma	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_403	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Ovary		Cyst, Parovarian	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_404	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Pyelonephritis, Acute	
Liver		Hepatitis, Toxic	
Lymph node	Celiac Lymph Node	Inflammation, Suppurative	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_405	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Uterus	Cervix Uteri	Leiomyosarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_406	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_407	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Liver	Mediastinal Lymph Node	Focal Cellular Change	
		Hepatitis, Toxic	
		Pigmentation, Nos	
Lymph node	Multiple Organs Nos	Fibrosis	
Spleen		Hyperplasia, C Cell	
Thyroid		Leukemia, Monocytic	
Unspecified		Inflammation, Suppurative	
Uterus			
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_408	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS Kidney Unspecified	Multiple Organs Nos	Mineralization Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_409	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Cyst, Nos	
		Focal Cellular Change	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_410	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Atrophy, Nos Cortical Carcinoma Pheochromocytoma, Malignant	
Eye	Retina	Cataract Degeneration, Nos	
Intestine Large	Ascending Colon, Colon	Adenocarcinoma, Nos	
Kidney		Mineralization Pigmentation, Nos	
Liver		Hepatitis, Toxic Hyperplasia, Nos	
Lung		Pheochromocytoma, Metastatic	
Mammary gland		Fibroadenoma Galactoceles	
Pituitary gland		Adenoma, Nos	
Skin		Basal-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_411	TRT#: 4	SEX: Female	DAY ON TEST:	
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:	
OBSERVATIONS				
Eye	Retina	Cataract		
		Degeneration, Nos		
Kidney		Cast, Nos		
		Mineralization		
Liver	Multiple Organs Nos	Focal Cellular Change		
Pituitary gland		Adenoma, Nos		
Thyroid		Cystic Follicles		
Unspecified		Leukemia, Monocytic		
PRIMARY CAUSE OF DEATH				
-				

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_412	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Cyst, Nos	
		Hepatitis, Toxic	
		Neoplastic Nodule	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Adipose Tissue	Inflammation, Chronic	
	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_413	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_414	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland	Perineum	Metamorphosis, Fatty	
Pituitary gland		Hyperplasia, Nos	
Spleen		Angiectasis	
Stomach		Hemosiderosis	
Thyroid		Necrosis, Focal	
Unspecified		Hyperplasia, C Cell	
Urinary bladder		Fibrosarcoma	
		Hyperplasia, Epithelial	
		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_415	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Descending, Colon	Adenomatous Polyp, Nos Cast, Nos Mineralization	
Liver		Hepatitis, Toxic Hyperplasia, Nos	
Lung		Hyperplasia, Alveolar Epithelium	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
Unspecified	Perineum	Fibroma	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_416	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Lymph node	Mandibular Lymph Node	Congestion, Nos	
Stomach		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_417	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Pituitary gland		Angiectasis	
Thyroid		Cystic Follicles	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_418	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS Kidney Unspecified	Multiple Organs Nos	Mineralization Leukemia, Myelomonocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_419	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_420	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
Pituitary gland		Hyperplasia, Focal	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_421	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_422	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma	
Kidney		Cast, Nos Mineralization	
Liver		Cyst, Nos Hepatitis, Toxic	
Lung		Fibrosis Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland	Pancreatic Lymph Node	Pigmentation, Nos Fibroadenoma Galactoceles	
Ovary		Cyst, Parovarian	
Stomach	Submucosa	Edema, Nos Inflammation, Acute/Chronic Ulcer, Acute	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_423	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Ovary		Cyst, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:06

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_424	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Colon	Parasitism	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Cyst, Nos	
		Hyperplasia, Focal	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_425	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
	Myocardium Nos	Degeneration, Nos	
Heart		Fibrosis	
Kidney		Cast, Nos	
		Cyst, Nos	
Liver		Angiectasis	
		Cyst, Nos	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
		Pigmentation, Nos	
Lymph node	Pancreatic Lymph Node	Hemorrhage	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Nos	
Pituitary gland		Hyperplasia, Focal	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_426	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Medulla	Hyperplasia, Focal	
Bone	Sternum	Hyperostosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Stomach		Inflammation, Chronic	
		Ulcer, Chronic	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_427	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_428	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Intestine Small	Duodenum	Signet Ring Carcinoma	
Kidney		Mineralization	
Liver		Cyst, Nos	
		Necrosis, Coagulative	
		Neoplastic Nodule	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Signet Ring Carcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_429	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS Kidney Unspecified	 Multiple Organs Nos Abdominal Wall Nos	 Mineralization Mixed Tumor, Malignant Leukemia, Monocytic Mixed Tumor, Invasive	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_430	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Small	Duodenum	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
Vagina		Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_431	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
		Necrosis, Coagulative	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Unspecified	Chest	Carcinoma, Nos	
	Abdominal Cavity	Steatitis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_432	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_433	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Pigmentation, Nos	
Pituitary gland		Pigmentation, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_434	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
	Cecum, Colon	Mucinous Cystadenocarcinoma	
Liver		Necrosis, Coagulative	
Mammary gland		Fibroadenoma	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
Uterus	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_435	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lung		Hyperplasia, Alveolar Epithelium	
		Inflammation, Interstitial	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		Cyst, Nos	
		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_436	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Harderian gland	Hardarian Gland	Inflammation, Granulomatous	
Liver		Focal Cellular Change	
Pituitary gland		Adenoma, Nos	
Unspecified	Groin	Abscess, Chronic	
	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_437	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_438	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
		Metamorphosis, Fatty	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_439	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Sarcoma	
Vagina		Endometrial Stromal Sarcoma, Invasive	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_440	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Pituitary gland		Congestion, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_441	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Intestine Large	Colon	Inflammation, Chronic	
	Cecum, Colon	Mucinous Cystadenocarcinoma	
Liver		Angiectasis	
		Hyperplasia, Nos	
		Neoplastic Nodule	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_442	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Angiectasis	
		Cyst, Nos	
		Hepatitis, Toxic	
Mammary gland		Neoplastic Nodule	
		Fibroadenoma	
		Galactoceles	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_443	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lung	Multiple Organs Nos	Hepatitis, Toxic	
Mammary gland		Liposarcoma, Metastatic	
Pituitary gland		Fibroadenoma	
Unspecified		Adenoma, Nos	
		Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_444	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mixed Tumor, Malignant	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
Stomach		Acanthosis	
		Inflammation, Acute	
		Ulcer, Chronic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_445	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
	Cortex Nos	Metamorphosis, Fatty	
Intestine Small	Ileum	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
		Necrosis, Coagulative	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
Spleen		Hematopoiesis	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_446	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Spleen		Hematopoiesis	
Stomach		Inflammation, Chronic	
		Ulcer, Acute	
Unspecified	Adipose Tissue	Mixed Tumor, Invasive	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_447	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Pituitary gland		Adenoma, Nos	
Spleen		Fibrosis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_448	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Inflammation, Chronic	
	Transverse Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mixed Tumor, Malignant	
Liver		Inflammation, Chronic	
		Metamorphosis, Fatty	
Lymph node	Celiac Lymph Node	Mucinous Cystadenocarcinoma, Metastatic	
Unspecified	Adipose Tissue	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_449	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Degeneration, Cystic	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_450	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Interstitial	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_451	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Necrosis, Coagulative	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_452	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Neoplastic Nodule	
Pituitary gland		Angiectasis	
Salivary gland		Abscess, Chronic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_453	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_454	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Ascending Colon, Colon	Adenocarcinoma, Nos	
	Ascending Colon, Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Degeneration, Cystic	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas		Atrophy, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_455	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Heart		Neurilemoma	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Galactoceles	
Ovary		Cyst, Parovarian	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Cervix Uteri	Endometrial Stromal Sarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_456	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_457	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_458	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Cyst, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Adenoma	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_459	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Hepatocytomegaly	
Lung		Mixed Tumor, Metastatic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_460	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Mammary gland		Galactocoele	
Ovary		Cyst, Parovarian	
Pituitary gland		Cyst, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_461	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Kidney		Mineralization	
Liver		Angiectasis	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_462	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Skin		Keratoacanthoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_463	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Spleen		Hematopoiesis	
Unspecified	Diaphragm Nos	Hernia, Nos	
	Adipose Tissue	Mixed Tumor, Invasive	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_464	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Cyst, Nos	
		Focal Cellular Change	
		Hepatocellular Carcinoma	
Lung		Inflammation, Chronic	
Lymph node	Ileocolic Lymph Node	Lymphangiectasis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_465	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Lung		Congestion, Nos	
		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Mucinous Cystadenocarcinoma, Metastatic	
Unspecified	Mediastinum Nos	Mucinous Cystadenocarcinoma, Metastatic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_466	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Duodenum	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lung	Alveoli	Histiocytosis	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_467	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large Kidney	Descending, Colon	Adenomatous Polyp, Nos Cast, Nos Mineralization Pigmentation, Nos Focal Cellular Change Hypertrophy, Focal Hemosiderosis C-Cell Adenoma Squamous Cell Carcinoma	
Liver Pituitary gland Spleen Thyroid Zymbal gland			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_468	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenocarcinoma In Adenomatous Polyp	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_469	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Angiectasis	
		Degeneration, Cystic	
		Focal Cellular Change	
		Inflammation, Chronic	
		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_470	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Adenomatous Polyp, Nos	
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Inflammation, Chronic Focal	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Lymph node	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Skin		Keratoacanthoma	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_471	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Cystic Follicles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_472	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
		Pigmentation, Nos	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_473	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Follicular-Cell Carcinoma	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_474	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lung		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Abscess, Chronic	
		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_475	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS Intestine Large Kidney Lung Thyroid	Ascending Colon, Colon	Signet Ring Carcinoma Mixed Tumor, Malignant Inflammation, Chronic Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_476	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Lung		Inflammation, Chronic	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
Uterus	Endometrium	Cyst, Nos	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:06

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_477	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_478	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Cyst, Nos	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_479	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Mixed Tumor, Metastatic	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Ovary		Cyst, Parovarian	
Pancreas		Mixed Tumor, Metastatic	
Pituitary gland		Cyst, Nos	
Spleen		Hematopoiesis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_480	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Pituitary gland		Pigmentation, Nos	
Thyroid		Follicular-Cell Adenoma	
		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_481	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_482	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
		Neoplastic Nodule	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
		Cyst, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
	Abdominal Cavity	Necrosis, Fat	
	Abdominal Cavity	Steatitis	
Uterus	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_483	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_484	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
Liver		Angiectasis	
		Degeneration, Cystic	
		Focal Cellular Change	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_485	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
		Inflammation, Granulomatous	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_486	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:06

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_487	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Lung		Inflammation, Chronic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_488	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Descending, Colon	Adenocarcinoma In Adenomatous Polyp	
	Descending, Colon	Adenomatous Polyp, Nos	
Liver		Focal Cellular Change	
Thyroid		Hyperplasia, C Cell	
Unspecified	Diaphragm Nos	Hernia, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_489	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Papillary Adenoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_490	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Duodenum	Signet Ring Carcinoma	
Kidney		Mineralization	
Liver		Hepatocellular Carcinoma	
Lymph node	Mediastinal Lymph Node	Inflammation, Suppurative	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Unspecified	Multiple Organs Nos	Signet Ring Carcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_491	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_492	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Abscess, Chronic	
		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_493	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Large	Transverse Colon, Colon	Adenocarcinoma In Adenomatous Polyp	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Mineralization	
Pituitary gland		Adenoma, Nos	
Uterus		Endometrial Stromal Polyp	
Zymbal gland		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_494	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Uterus	Endometrium	Adenoma, Nos	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_495	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Intestine Small	Mesentery Nos	Congestion, Nos	
Lymph node	Mandibular Lymph Node	Congestion, Nos	
	Mediastinal Lymph Node	Congestion, Nos	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Ovary		Inflammation, Suppurative	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Papilloma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_496	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Galactoceles	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_497	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Lung		Mixed Tumor, Metastatic	
Mammary gland		Fibroadenoma	
		Galactoceles	
Spleen		Hematopoiesis	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Thyroid		Follicular-Cell Adenoma	
		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_498	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mixed Tumor, Malignant	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
		Galactoceles	
		Hyperplasia, Nos	
Thyroid		C-Cell Adenoma	
	Multiple Organs Nos	C-Cell Carcinoma	
Unspecified		Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_499	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
Liver		Cyst, Nos	
		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
		Granulosa-Cell Tumor	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Cervix Uteri	Cyst, Nos	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_500	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Degeneration, Nos	
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Liver	Bile Duct	Hyperplasia, Nos	
		Hyperplasia, Nos	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
Zymbal gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_501	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon Ascending Colon, Colon Transverse Colon, Colon	Adenocarcinoma In Adenomatous Polyp Adenomatous Polyp, Nos Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Pituitary gland		Angiectasis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_502	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos	
	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_503	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
		Dilatation, Ducts	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Hemangiosarcoma	
Lung		Hemangiosarcoma, Metastatic	
Mammary gland		Adenoma, Nos	
Nasal cavity	Nose Nos	Squamous Cell Carcinoma	
Pituitary gland		Angiectasis	
Unspecified	Back	Keratoacanthoma	
Zymbal gland		Squamous Cell Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_504	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Ascending Colon, Colon	Signet Ring Carcinoma	
Kidney		Mineralization	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Signet Ring Carcinoma, Metastatic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Papillary Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_505	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
		Metamorphosis, Fatty	
		Pigmentation, Nos	
Spleen		Hemosiderosis	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_506	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Adenocarcinoma, Nos	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mesenteric Lymph Node	Adenocarcinoma, Nos, Metastatic	
	Pancreatic Lymph Node	Pigmentation, Nos	
Unspecified	Adipose Tissue	Inflammation, Chronic	
	Multiple Organs Nos	Leukemia, Monocytic	
	Adipose Tissue	Necrosis, Fat	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_507	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Inflammation, Chronic	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mesenteric Lymph Node	Hemorrhage	
	Ileocolic Lymph Node	Lymphangiectasis	
	Mesenteric Lymph Node	Lymphangiectasis	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_508	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_509	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_510	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mixed Tumor, Malignant	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
		Hydrometra	
		Inflammation, Acute	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_511	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
	Descending, Colon	Parasitism	
Kidney		Cast, Nos	
		Mineralization	
Liver		Pigmentation, Nos	
		Focal Cellular Change	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_512	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Ear		Squamous Cell Carcinoma	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Liver		Cyst, Nos	
Lung		Squamous Cell Carcinoma, Metastatic	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Cervix Uteri	Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_513	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Galactoceles	
Spleen		Thrombus, Fibrin	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_514	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS Kidney		Mixed Tumor, Malignant	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_515	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Ovary		Cyst, Parovarian	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_516	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma	
Kidney		Mineralization	
Ovary		Cyst, Parovarian	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_517	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pancreas		Atrophy, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_518	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Liver		Metamorphosis, Fatty	
Lung		Mixed Tumor, Metastatic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Skeletal muscle	Abdominal Muscle	Mixed Tumor, Invasive	
Stomach		Acanthosis	
		Hyperkeratosis	
Unspecified	Adipose Tissue	Mixed Tumor, Invasive	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_519	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Angiectasis	
Thymus		Edema, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_520	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_521	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
		Inflammation, Granulomatous	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_522	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mixed Tumor, Malignant	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Thyroid		Cystic Follicles	
Unspecified	Multiple Organs Nos	Signet Ring Carcinoma, Metastatic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_523	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Parasitism	
Kidney		Mineralization	
Lung		Inflammation, Chronic	
Salivary gland		Inflammation, Acute	
Thyroid		Hyperplasia, C Cell	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_524	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Intestine Small	Jejunum	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
		Hepatocellular Carcinoma	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_525	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Liver		Angiectasis	
		Hepatitis, Toxic	
Mammary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_526	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Angiectasis	
		Degeneration, Cystic	
	Bile Duct	Hyperplasia, Nos	
		Inflammation, Chronic	
		Neoplastic Nodule	
Lymph node	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Galactoceles	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_527	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone marrow		Atrophy, Nos	
Eye		Cataract	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hyperplasia, Nos	
		Pigmentation, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Adipose Tissue	Inflammation, Chronic	
	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_528	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos	
	Cecum, Colon	Mucinous Cystadenocarcinoma	
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_529	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
		Mixed Tumor, Malignant	
Liver		Neoplastic Nodule	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_530	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hypertrophy, Focal	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Pigmentation, Nos	
Skin		Cyst, Nos	
Thyroid		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_531	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Colon	Parasitism	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatocellular Carcinoma	
Pituitary gland		Angiectasis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_532	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Capsule	Inflammation, Chronic	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cytomegaly	
		Hyperplasia, Tubular Cell	
		Mineralization	
		Mixed Tumor, Malignant	
Liver		Hemorrhage	
		Necrosis, Nos	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hematopoiesis	
Stomach	Submucosa	Edema, Nos	
		Inflammation, Acute	
		Ulcer, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_533	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_534	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_535	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma	
Kidney		Cast, Nos	
		Mineralization	
Liver	Bile Duct	Cyst, Nos	
		Focal Cellular Change	
		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_536	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
Eye		Cataract	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Parathyroid gland		Hyperplasia, Nos	
Salivary gland		Mineralization	
Thyroid		Follicular-Cell Adenoma	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_537	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hemorrhage	
Uterus	Cervix Uteri	Hyperplasia, Stromal	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_538	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Degeneration, Nos	
	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos	
Kidney		Mixed Tumor, Malignant	
Liver		Metamorphosis, Fatty	
	Capsule	Mixed Tumor, Metastatic	
Lung		Mixed Tumor, Metastatic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Stomach		Acanthosis	
		Hyperkeratosis	
		Inflammation, Chronic	
		Ulcer, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_539	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Sternum	Fibrosis, Myelo	
Kidney		Hyperplasia, Tubular Cell	
		Mineralization	
		Nephrosis, Nos	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_540	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_541	TRT#: 4 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
Liver		Cyst, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Skin		Basal-Cell Carcinoma	
Spleen		Hematopoiesis	
Uterus	Endometrium	Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_542	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pigmentation, Nos	
Kidney		Mineralization	
		Mixed Tumor, Malignant	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_543	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Zymbal gland		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_544	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
	Periportal	Fibrosis	
		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Pancreas		Inflammation, Chronic	
Pituitary gland		Adenoma, Nos	
Thyroid		Cystic Follicles	
Unspecified	Diaphragm Nos	Hernia, Nos	
Uterus	Endometrium	Cyst, Nos	
		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_545	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus	Endometrium	Hyperplasia, Nos	
	Cervix Uteri	Hyperplasia, Stromal	
Vagina		Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:06

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_646	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Hepatitis, Toxic	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Inflammation, Chronic	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_647	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_648	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_649	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Neoplastic Nodule	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Spleen		Hematopoiesis	
		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Unspecified		Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_650	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland		Abscess, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lung		C-Cell Carcinoma, Metastatic	
Lymph node	Mediastinal Lymph Node	C-Cell Carcinoma, Metastatic	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Pituitary gland		Hyperplasia, Focal	
Thyroid		C-Cell Adenoma	
		C-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_651	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Adenocarcinoma, Nos	
		Fibroadenoma	
Pancreas		Atrophy, Nos	
Thyroid		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_652	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Clitoral gland		Dilatation, Ducts	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
		Tubular-Cell Adenocarcinoma	
Liver		Focal Cellular Change	
Lymph node	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell	
Mammary gland		Adenoma, Nos	
		Dilatation, Ducts	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_653	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Sarcoma	
	Cervix Uteri	Endometrial Stromal Sarcoma, Invasive	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_654	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Clitoral gland		Carcinoma, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
Liver		Focal Cellular Change	
Lung		Papillary Adenocarcinoma, Metastatic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Hyperplasia, Focal	
Thyroid		C-Cell Adenoma	
Uterus		Papillary Adenocarcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_655	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Zymbal gland		Dilatation, Ducts	
		Hyperkeratosis	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_656	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
		Hyperplasia, Follicular Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_657	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lung		Bronchiectasis	
		Cyst, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pancreas		Atrophy, Nos	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_658	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Intestine Large	Colon	Parasitism	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_659	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Brain		Glioma, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_660	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Heart	Ventricle	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Stomach		Ulcer, Acute	
Thyroid		C-Cell Adenoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_661		TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland		Cortex Nos	Metamorphosis, Fatty	
Eye			Cataract	
		Retina	Degeneration, Nos	
Heart		Myocardium Nos	Fibrosis	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Mineralization	
Lung			Inflammation, Suppurative	
Lymph node		Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland			Fibroadenoma	
			Galactoceles	
Pancreas			Atrophy, Nos	
Parathyroid gland			Adenoma, Nos	
Pituitary gland			Adenoma, Nos	
Stomach			Acanthosis	
			Inflammation, Acute	
			Necrosis, Focal	
Thyroid			C-Cell Adenoma	
Urinary bladder			Transitional-Cell Papilloma	
Uterus			Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_662		TRT#: 5	SEX: Female	DAY ON TEST:
		DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS				
Adrenal gland			Pheochromocytoma	
Eye			Cataract	
		Retina	Degeneration, Nos	
Heart		Myocardium Nos	Fibrosis	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Mineralization	
Liver			Angiectasis	
			Focal Cellular Change	
			Metamorphosis, Fatty	
			Pigmentation, Nos	
Lymph node		Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland			Adenoma, Nos	
Thyroid			C-Cell Carcinoma	
Unspecified		Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_663	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Tongue		Squamous Cell Papilloma	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_664	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Lymphangiectasis	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_665	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain		Astrocytoma	
Kidney		Cast, Nos	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Spleen		Hematopoiesis	
		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Perforated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_666	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Fibrosis	
		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Skin		Hyperkeratosis	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Dilatation, Ducts	
		Hyperkeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_667	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
Brain		Granular-Cell Tumor, Nos	
Esophagus		Hyperkeratosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver	Bile Duct	Hyperplasia, Nos	
		Inflammation, Granulomatous	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Chondroma	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_668	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_669	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Hemorrhage	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_670	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_671	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Bone	Sternum	Hyperostosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
		Pneumonia, Aspiration	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_672	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Hemorrhage	
		Inflammation, Suppurative	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Oral mucosa	Palate	Squamous Cell Carcinoma	
Thyroid		Follicular-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_673	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Degeneration, Cystic	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Ileocolic Lymph Node	Lymphangiectasis	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_674	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Ganglioneuroma	
Clitoral gland		Carcinoma, Nos	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_675	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Cyst, Nos	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_676	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Lymph node	Ileocolic Lymph Node	Hemorrhage	
	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Fibroadenoma	
		Galactocoele	
Pituitary gland		Adenoma, Nos	
Skeletal muscle		Rhabdomyosarcoma	
Spleen		Fibrosis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Endometrial Stromal Polyp	
		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_677	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Cyst, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Papillary Cystadenoma, Nos	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_678	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lung		Inflammation, Interstitial	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Granulosa-Cell Tumor	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Inflammation, Acute/Chronic	
		Squamous Cell Papilloma	
		Ulcer, Acute	
Thyroid		Follicular-Cell Adenoma	
		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_679	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Hematopoiesis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Degeneration, Cystic	
		Focal Cellular Change	
	Hepatic Sinusoid	Leukocytosis, Nos	
		Necrosis, Coagulative	
Lymph node	Mesenteric Lymph Node	Necrosis, Nos	
	Mesenteric Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
Pituitary gland		Hypertrophy, Focal	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_680	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
		Pigmentation, Nos	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Dilatation, Ducts	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
	Submucosa	Edema, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_681	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Degeneration, Cystic	
	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_682	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Degeneration, Nos	
Kidney		Mineralization	
Spleen		Hemosiderosis	
Uterus	Cervix Uteri	Inflammation, Acute/Chronic	
Vagina		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_683	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
		Necrosis, Coagulative	
Pancreas		Atrophy, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_684	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Pigmentation, Nos	
	Pancreatic Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:06
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_685	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland	Myocardium Nos	Carcinoma, Nos	
Heart		Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
	Mandibular Lymph Node Cervical Lymph Node Nos Mediastinal Lymph Node	Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lung		Alveolar/Bronchiolar Adenoma	
Lymph node		Hyperplasia, Plasma Cell	
		Pigmentation, Nos	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_686	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Lung		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mandibular Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_687	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Mammary gland		Fibroadenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_688	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Intestine Large	Cecum, Colon	Inflammation, Chronic	
Intestine Small	Mesentery Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Parathyroid gland		Hyperplasia, Nos	
Spleen		Hemosiderosis	
Stomach	Submucosa	Edema, Nos	
		Hyperkeratosis	
		Inflammation, Acute/Chronic	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_689	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
		Pheochromocytoma	
Brain		Carcinoma, Nos, Invasive	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Granulomatous	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Ileocolic Lymph Node	Lymphangiectasis	
Mammary gland		Galactoceles	
Pituitary gland		Carcinoma, Nos	
Stomach		Acanthosis	
		Hyperkeratosis	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_690	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Nos	
Spleen		Infarct, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_691	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Cecum, Colon	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Hepatitis, Toxic	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Ileocolic Lymph Node	Lymphangiectasis	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_692	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Small	Mesentery Nos	Squamous Cell Carcinoma, Invasive	
Kidney		Mineralization	
Liver		Thrombus, Fibrin	
		Thrombus, Organized	
Lung		Leukocytosis, Neutrophilic	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
Spleen		Fibrosis	
		Hematopoiesis	
		Hemosiderosis	
		Infarct, Nos	
Stomach		Squamous Cell Carcinoma	
Uterus	Cervix Uteri	Endometrial Stromal Polyp	
Vagina		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_693	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Pneumonia, Aspiration	
Lymph node	Mediastinal Lymph Node	Hyperplasia, Lymphoid	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_694	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis	
Liver		Focal Cellular Change	
Mammary gland		Galactocele	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_695	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_696	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Brain	Ventricle	Dilatation, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Angiectasis	
		Focal Cellular Change	
Mammary gland		Adenocarcinoma, Nos	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_697	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
	Mesenteric Lymph Node	Hyperplasia, Lymphoid	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Spleen		Hemosiderosis	
Stomach		Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_698	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Cyst, Nos	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lung		Alveolar/Bronchiolar Adenoma	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_699	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla Cortex Nos Cortex Nos	Hyperplasia, Nos Hypertrophy, Nos Metamorphosis, Fatty	
Eye	Retina	Cataract Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos Mineralization	
Liver		Focal Cellular Change	
Lung	Bronchus Pleura Nos	Bronchiectasis Fibrosis, Focal Inflammation, Chronic	
Lymph node	Mandibular Lymph Node Mediastinal Lymph Node Mandibular Lymph Node Mediastinal Lymph Node Renal Lymph Node	Hyperplasia, Plasma Cell Hyperplasia, Plasma Cell Pigmentation, Nos Pigmentation, Nos Pigmentation, Nos	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified		Fibroma	
Zymbal gland	Multiple Organs Nos	Leukemia, Mononuclear Cell Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_700	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Intestine Small	Peyers Patch	Hyperplasia, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_701	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Dilatation, Ducts	
		Hyperkeratosis	
Liver		Hepatitis, Toxic	
Pituitary gland		Angiectasis	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_702	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
		Nephrosis, Hydro	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
	Bile Duct	Hyperplasia, Nos	
Lung	Alveoli	Histiocytosis	
Mammary gland		Carcinoma, Nos	
		Fibroadenoma	
Thyroid		Cystic Follicles	
		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
Urinary bladder		Hemorrhage	
		Hyperplasia, Epithelial	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_703	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Intestine Small	Peyers Patch	Hyperplasia, Epithelial	
	Peyers Patch	Inflammation, Acute/Chronic	
	Peyers Patch	Ulcer, Acute	
Kidney		Cast, Nos	
		Mineralization	
Liver		Pigmentation, Nos	
		Focal Cellular Change	
		Necrosis, Coagulative	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_704	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Pancreatic Lymph Node	Hyperplasia, Lymphoid	
Mammary gland		Galactoceles	
Pancreas	Islets	Islet-Cell Adenoma	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_705	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma, Malignant	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Pheochromocytoma, Metastatic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_706	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Angiectasis	
		Metamorphosis, Fatty	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Parovarian	
Pituitary gland		Adenoma, Nos	
Stomach		Acanthosis	
		Hyperkeratosis	
Thyroid		Hyperplasia, C Cell	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:49:07

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_707	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Lung		Hyperplasia, Alveolar Epithelium	
Mammary gland		Fibroadenoma	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_708	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia, Alveolar Epithelium	
Mammary gland		Fibroadenoma	
		Galactoceles	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_709	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
	Cortex Nos	Metamorphosis, Fatty	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
		Mineralization	
Lung		Alveolar/Bronchiolar Carcinoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_710	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Bone	Skull	Hyperostosis	
	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pancreas		Acinar-Cell Adenoma	
Thyroid		Hyperplasia, C Cell	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_711	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye	Retina	Cataract	
Kidney		Degeneration, Nos	
		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Degeneration, Cystic	
		Focal Cellular Change	
		Inflammation, Chronic	
		Pigmentation, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_712	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_713	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_714	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Blood vessel	Coronary Artery Nos	Mineralization	
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
		Nephrosis, Hydro	
Liver	Periportal	Fibrosis	
		Focal Cellular Change	
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Galactoceles	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
		Hemosiderosis	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_716	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Cast, Nos	
		Mineralization	
Ovary		Cyst, Nos	
Spleen	Capsule	Fibrosis	
Thyroid		C-Cell Adenoma	
		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_717	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
		Pheochromocytoma	
Brain	Ventricle	Dilatation, Nos	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Acute	
Mammary gland		Adenoma, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Carcinoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_718		TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland			Pheochromocytoma, Malignant	
Blood vessel	Coronary Artery Nos		Mineralization	
Heart	Myocardium Nos		Fibrosis	
	Myocardium Nos		Pheochromocytoma, Metastatic	
Kidney			Cast, Nos	
			Inflammation, Chronic	
			Mineralization	
Liver			Inflammation, Granulomatous	
			Metamorphosis, Fatty	
Lung			Inflammation, Suppurative	
			Pheochromocytoma, Metastatic	
Lymph node	Mediastinal Lymph Node		Hemorrhage	
	Mediastinal Lymph Node		Pigmentation, Nos	
Mammary gland			Fibroadenoma	
			Galactoceles	
Pancreas	Islets		Islet-Cell Carcinoma	
Pituitary gland			Adenoma, Nos	
Skin			Hyperkeratosis	
Spleen			Hemosiderosis	
Thyroid			Follicular-Cell Carcinoma	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_719	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
		Pheochromocytoma	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
		Mineralization	
Mammary gland		Fibroadenoma	
Pancreas	Islets	Islet-Cell Carcinoma	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_720	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Ventricle	Dilatation, Nos	
Kidney		Cast, Nos	
		Mineralization	
Liver		Inflammation, Acute	
		Inflammation, Granulomatous	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Stomach		Acanthosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_721	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Inflammation, Chronic	
Liver		Metamorphosis, Fatty	
Lymph node	Pancreatic Lymph Node	Hyperplasia, Plasma Cell	
	Pancreatic Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Hyperkeratosis	
		Inflammation, Acute/Chronic	
		Ulcer, Acute	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_722	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Brain	Ventricle	Dilatation, Nos	
Intestine Large	Cecum, Colon	Inflammation, Acute/Chronic	
	Cecum, Colon	Ulcer, Nos	
Intestine Small	Mesentery Nos	Inflammation, Chronic	
	Mesentery Nos	Necrosis, Fat	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Hematopoiesis	
		Inflammation, Granulomatous	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell	
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Stomach		Acanthosis	
		Hyperkeratosis	
		Inflammation, Acute/Chronic	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_723	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Hernia, Nos	
Lung		Inflammation, Suppurative	
Salivary gland		Hyperplasia, Epithelial	
		Inflammation, Chronic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_724	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Ascending Colon, Colon	Cortical Adenoma	
Intestine Large		Leiomyoma	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Focal Cellular Change	
		Inflammation, Chronic	
Lymph node	Mesenteric Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_725	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Hemorrhage	
Kidney		Mineralization	
Liver		Focal Cellular Change	
		Hepatitis, Toxic	
Pancreas		Atrophy, Nos	
Spleen	Capsule	Fibrosis	
Thyroid		Follicular-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_726	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
		Mineralization	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Unspecified	Leg	Fibroma	
	Neck	Sarcoma, Nos	
Zymbal gland		Sarcoma, Nos, Invasive	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_727	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Medulla	Hyperplasia, Focal	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
		Necrosis, Coagulative	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Follicular-Cell Carcinoma	
Uterus		Endometrial Stromal Polyp	
		Inflammation, Suppurative	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_728	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Lung		Pneumonia, Aspiration	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Hyperplasia, Lymphoid	
	Mediastinal Lymph Node	Pigmentation, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_729	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos Atrium	Fibrosis Thrombus, Organized Cast, Nos Inflammation, Chronic Focal Cellular Change Inflammation, Chronic	
Kidney		Hemorrhage	
Liver		Hyperplasia, Plasma Cell Pigmentation, Nos	
Lung		Fibroadenoma	
Lymph node	Mediastinal Lymph Node Mandibular Lymph Node Mediastinal Lymph Node	Galactoceles Adenoma, Nos Hemosiderosis	
Mammary gland		Transitional-Cell Papilloma	
Pituitary gland			
Spleen			
Urinary bladder			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_730	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
	Retina	Degeneration, Nos	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Pigmentation, Nos	
Liver		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
Pituitary gland		Hypertrophy, Nos	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_731	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Heart	Myocardium Nos	Inflammation, Chronic	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Angiectasis	
Lung		Inflammation, Chronic	
Mammary gland		Adenoma, Nos	
		Dilatation, Ducts	
		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_732	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Terminal Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Inflammation, Chronic	
Liver		Focal Cellular Change	
		Inflammation, Granulomatous	
		Pigmentation, Nos	
Mammary gland		Fibroadenoma	
		Galactoceles	
Ovary		Granulosa-Cell Tumor	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_733	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver	Periportal	Fibrosis	
		Focal Cellular Change	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Angiectasis	
Spleen		Hematopoiesis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_734	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Cast, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Metamorphosis, Fatty	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenoma, Nos	
		Fibroadenoma	
		Galactoceles	
Ovary		Cyst, Nos	
Pancreas		Acinar-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Stomach		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_735	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Bone	Sternum	Hyperostosis	
Kidney		Cast, Nos	
		Mineralization	
Liver		Leukocytosis, Neutrophilic	
		Necrosis, Coagulative	
Lymph node	Mediastinal Lymph Node	Congestion, Nos	
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell	
	Mediastinal Lymph Node	Pigmentation, Nos	
Mammary gland		Adenocarcinoma, Nos	
Spleen		Hematopoiesis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_736	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
		Angiectasis	
Thyroid		Cyst, Nos	
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell	
		Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_737	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Cast, Nos	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_738	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos Degeneration, Cystic Metamorphosis, Fatty	
Eye	Cortex Nos	Cataract	
Liver	Retina	Degeneration, Nos Focal Cellular Change	
Mammary gland		Adenocarcinoma, Nos Fibroadenoma Galactoceles	
Pituitary gland		Angiectasis Hypertrophy, Focal	
Salivary gland		Sarcoma, Nos	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234E
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, chrysotile(IR)
CAS Number: 12001-29-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:49:07
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_739	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Bone	Skull	Hyperostosis	
Heart	Myocardium Nos	Fibrosis	
Kidney		Cast, Nos	
		Cyst, Nos	
		Inflammation, Chronic	
		Mineralization	
Liver		Angiectasis	
		Focal Cellular Change	
		Metamorphosis, Fatty	
Lymph node	Mediastinal Lymph Node	Hemorrhage	
	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Stomach		Acanthosis	
		Inflammation, Acute/Chronic	
		Ulcer, Chronic	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_740	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Hepatitis, Toxic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Monocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_741	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Kidney		Mineralization	
Liver		Inflammation, Chronic	
		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell	
Mammary gland		Fibroadenoma	
Salivary gland		Inflammation, Chronic	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_742	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis	
Kidney		Mineralization	
Lung		Abscess, Nos	
		Inflammation, Chronic	
Lymph node	Mandibular Lymph Node	Congestion, Nos	
	Mediastinal Lymph Node	Congestion, Nos	
Spleen		Hemosiderosis	
Thymus		Congestion, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_743	TRT#: 5	SEX: Female	DAY ON TEST:
	DOSE: 10000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Esophagus		Hyperkeratosis	
Eye		Cataract	
	Retina	Degeneration, Nos	
Kidney		Cast, Nos	
Liver		Focal Cellular Change	
Lung		Inflammation, Chronic	
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos	
Pituitary gland		Angiectasis	
Spleen		Hematopoiesis	
Thyroid		C-Cell Adenoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_744	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Angiectasis	
Kidney		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Angiectasis	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5_745	TRT#: 5 DOSE: 10000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Mineralization	
Liver		Focal Cellular Change	
Mammary gland		Fibroadenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE